10711054 P.02

Áttemey's Docket No.

Dec. 14, 1994

PA-5047-FWC

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Timothy A. Chuter Serial No.: 0 8 / 159,774 Group No. Filed: Nov. 30, 1993 Examiner: For: EXPANDABLE TRANSLUMINAL GR ANEURYSM AND METHOD OF IMP	D. Brittingham AFT PROSTHESIS FOR REPAIR O
Commissioner of Petents and Trademarks Washington, D.C. 20231	
DECLARATION OF PRIOR INVENTION OVERCOME CITED PATENT OR PR	
PURPOSE OF DEC	LARATION
1. This declaration is to establish completion of the States at a date prior to August 22, 1991 art: publication Inoue WO	, that is the effective date of the prior
patent patent patent	
examiner.	
' applicant.	
NOTE: "(a) When any claim of an application or a patent domestic patent which substantially shows or desc on reference to a foreign patent or to a printed public under reaxamination shall make oath or declaration in this country before the filling date of the application the date of the foreign patent, or before the date of the cited shall not bar the grant of a patent to the applications of the patent, unless the date of such patent to the date on which the applicant's or patent own 1.131(a).	chbes but does not claim the rejected invention, or ication, and the applicant or the owner of the patent in as to facts showing a completion of the invention ion on which the domestic patent issued, or before the printed publication, then the patent or publication licent or the confirmation of the patentability of the tor printed publication be more than one year prior mer's application was filed in this country." 37 CFR
NOTE: 37 CFR 1.131 is not applicable to a rejection ba	sed on a U.S. patent which CLAIMS the rejected
CERTIFICATE OF MAILING/TRAM	MISSION (27 CFR 1.8(a))
I hereby certify that this correspondence is, on the date sho	wn below, being:
MAILING	FACSIMILE
Service with sufficient postage as first class Patent a mail in an envelope addressed to the Commissioner of Patents and Trademarks,	amitted by facalmile to the and Trademark Office
Washington, D.C. 20231	mbara J Foros

(Declaration of Prior Invention in the United States to Overcome Cited Patent or Publication—37 CFR 1.131. [9-32]—page 1 of 5)

Barbara J. Forss

(type or print name of person certifying)

2. The person	making t	nis declaration is (are):	
	X	the inventor(s).	
		only some of the joint inventor (and a for failure of the omitted joint inventor	suitable excuse is attached (s) to sign).
		the party in interest (and a suitable expossible to produce the declaration of	xplanation as why it is not the inventor(s) is attached).
	FA	CTS AND DOCUMENTARY EVID	ENCE
3.			
in suc	port thereof	sciaration must state FACTS and produce such dassers are available to show conception and completion being at a date prior to the effective date of	on of Invention IN THIS COUNTRY
To establis	sh the date numents ar	e of completion of the invention of thind/or models are submitted as evidence	s application the following e:
		(check all applicable items below)	
		sketches	
		blueprints	
		photographs	
)	reproduction(s) of notebook entries	See supporting statement by Inventor
		supporting statement(s) by witness(s) (the evidence relied upon)	where verbal disclosures are
demo of ho	anstrative evid ow to solve	is the mental part of the inventive act, it must dence or by a complete disclosure to another. Co. a problem. The requisite means themselves a se Margenthaler v. Scudder 1897 C.D. 724, 81	ncaption is more than a vague idea nd their interaction must also be
From these was made	e documen	its and/or models it can be seen that the	invention in this application
	n		
∑⊆ at	least by terier than	he date of $\frac{\text{Aug. 21, 1991}}{\text{which is a}}$ which is a the effective date of the reference.	date
NOTE: "If th	e dates of th	e exhibits have been removed or blocked off, the the cath or declaration." MPEP § 715.07.	matter of dates can be taken care
	detes in the	oath or declaration may be the actual dates, or, if	the applicant or patent owner does

(Declaration of Prior Invention in the United States to Overcome Cited Patent or Publication—37 CFR 1.131 [9-32]—page 2 of 5)

prior to a specified date." MPEP § 715.07.

DILIGENCE

NOTE: "Where there has not been reduction to practice prior to the date of the reference, the applicant or patent owner must also show diligence in the completion of his or her invention from a time just prior to the date of the reference continuously up to the date of the actual reduction to practice or up to the date of filing his or her application (filing constitutes a constructive reduction to practice, § 1.131)."

MPEP § 715.07 (emphasis added).

NOTE: "A conception of an invention, though evidenced by disclosure, drawings, and even a model, is not a complete invention under the patent laws, and confers no rights on an inventor, and has no effect on a subsequently granted patent to another, UNLESS HE OR SHE FOLLOWS IT WITH REASONABLE DILIGENCE BY SOME OTHER ACT, such as an actual reduction to practice or filing an application for a patent. Automatic Weighing Mach. Co. v. Pneumatic Scale Corp., Limited 1909 C.D. 498, 139 O.G. 991.

"Conception in the mental part of the inventive act, but it must be capable of proof, as by drawings, complete disclosure to another person, etc. In Mergenthaler v. Scudder, 1897 C.D. 724, 81 O.G. 1417, it was established that conception is more than a mere vague idea of how to solve a problem; the means themselves and their interaction must be comprehended also." MPEP § 715.07.

NOTE: Only diligence before reduction to practice is a material consideration. The "lapse of time between the completion or reduction to practice of an invention and the filing of an application thereon" (Ex parte Merz 74 USPQ 296) is not relevant to an affidavit or declaration under 37 CFR 1.131, MPEP § 715.07(a).

Attached is a statement establishing diligence of the applicants from the time of their conception to a time just prior to the date of the reference up to the:

actual reduction to practice.
filing of this application.

TIME OF PRESENTATION OF THE DECLARATION

(complete (a), (b) or (c))

(a)	A	This	decla	ration	is	submitted	prior	to	final	rejection.	
• •			_								

- (b)
 This declaration is submitted with the first response after final rejection and is for the purpose of overcoming a new ground of rejection or requirement made in the final rejection.
- (c) This declaration is submitted after final rejection and a showing under 37 CFR 1.116(b) is submitted herewith.

DECLARATION

6. As a person signing below:

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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SIGNATURE(S)

•	(complet	e A or B below)		
L Inventor(s)		·	·	
full name of sole or fi	irst inventor Tim	othy A. Chuter		
nventor's, signature	Limothy	Q. N.	(Duter.	
Date 11/30/94 Coun	ntry of Citizenship .	U.S.A. BR	ITAIN	
lesidence Pittsford,	New-York	IRVINGTON	New You	RK.
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(use a	ndded page for sig	nature by additlor	nal inventors)	

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Number of pages added:

10711054 P.06

P. Wesiduee		*			
	type or print name of person signing				
	Signature		· · · · · ·		
Date					
P.O. Address		•			
(type name of assignee)					
Address of assignee					
	·				
Title of person authorized to sign on behalf of assignee					
Assignment recorded in PTO on	<u> </u>				
A "CERTIFICATE UNDER 37 CFR 3.3	37(b)" is attached.				

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PATENT

SUPPORTING STATEMENT BY INVENTOR

Enclosed herewith are reproductions of entries made by myself in a bound laboratory notebook to establish the date of completion of the invention of this application on or before August 21, 1991, which is a date earlier than the effective date of the Inoue reference, document number WO 91/12047. The dates of the actual entries have been blocked off from the reproductions of the notebook entries, but are before August 21, 1991. These notebook entries on pages 7-15 document clinical trials of the completed invention on two dogs. Sketches on pages 9, 11, and 15 of these notebook entries illustrate a transluminal arrangement for positioning a prosthesis assembly at a particular position on a The transluminal arrangement includes an wall of a lumen. introducer sheath with a bore extending therethrough and a prosthesis assembly positioned within the bore of the sheath for positioning the prosthesis assembly at a desired location within a blood vessel lumen. The prosthesis assembly includes a graft and a self-expanding spring for radially expanding the graft to conform to the wall of a blood vessel lumen after the prosthesis assembly has been released from the introducer sheath. A pusher catheter is positioned within the bore of the catheter for retaining the prosthesis assembly at the desired position in the blood vessel lumen when withdrawing the introducer sheath from the selfexpanding spring assembly. The pusher catheter includes an outer catheter with a wire centrally positioned therethrough. Holes are positioned within the walls of the catheter for positioning therethrough mooring loops that are attached to the prosthesis assembly. The mooring loops are maintained within the lumen of the outer catheter until the central wire is removed from the outer This transluminal arrangement was utilized in an intraluminal surgical procedure for delivering and positioning the prosthesis assembly in the aorta of two dogs on which I performed clinical trials. These trials were performed to evaluate the use of the transluminal arrangement and prosthesis assembly on human subjects.

Date Timothy A. Chuter

(f) Old of thre button are filled with resin and filed smoth, so that no light or edges remain to calcula the practices during removal. Turit dog tral +---So lo fenale

Pento bartital IV, after IP induction.

Themoral cut-dann lagrogram is a fernaval a

Dafta-renal acuta V. long

Big lumbar branches

Next be more lumbar vertibras in

Continue from a firesumal Counting from a presumal

AB LT lelar the differentian is @

top of "LS" and the recol at the

top of "T12" ??

Diameter of award = 9 mm.

Be norted catheter did not work.

The northings were not radio dense senange. Liges were estunated by conferman to
the diameter of a 5 F (atheter (~ 1.5 m))
The gorta was 6 x that Recliec centrach from Gebra u ciria.

Recomma diac : 6 mm. Outroducer 4 paned through transverse comma dice arteriotomy 2,000 units hoparis 14

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the caleall plug did not ansure hand sta the fore of aterial formure.

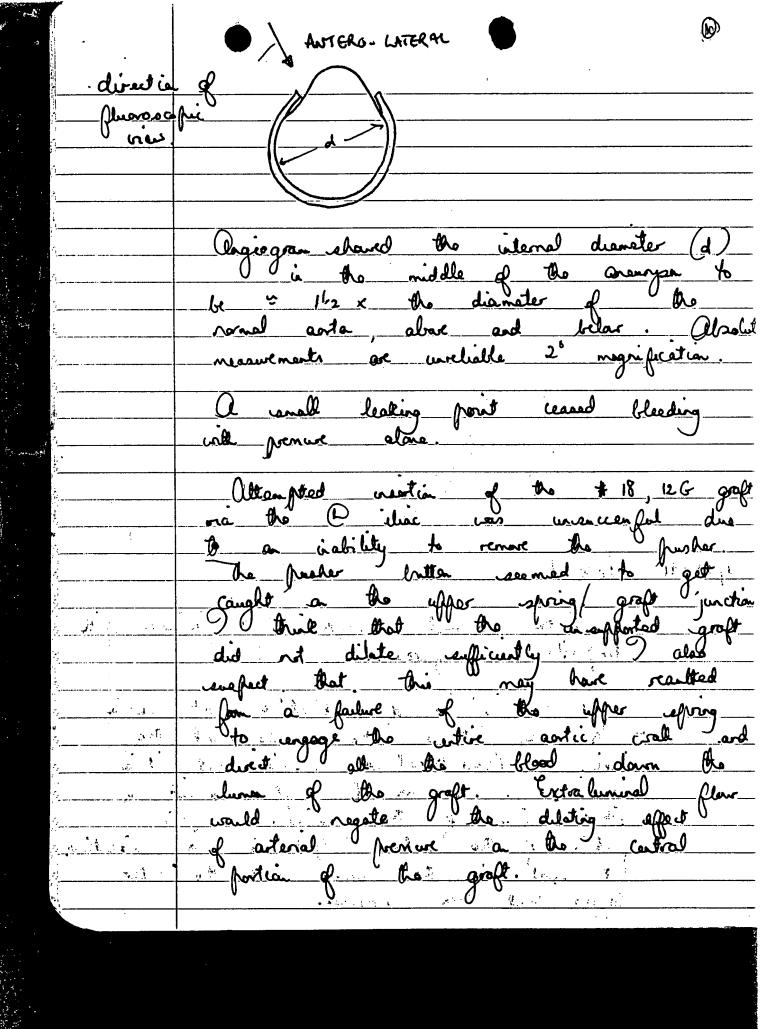
Upper espring placed at upper une
"11." Continual fluoroscopy. 2 rest

and entrusia of prostlars tooks * 30

Theore on video # 20 - 105. 2 mages 58,59,60,4 Angiograms confirmed position and potency of luner and position of lower sepring relative to the cliec venels. No leakage around the graft on argingran or vicinia of perignoft acrta at a explact letter done of perignoft. IN. Port-mater excision of graft and surrous _ancheseair_ led diac usertian The greft is as my to place forcisely and fixes in position soundy.

The walk of the greft conforms well to the wall of the acta eith lible injurgement a the luner seen is the region we sufferted by springs. Plan Duprove the sheath plug by the addition of a St coth atroducer

1000年111日 - 1000年11日本 SG whodrew cap Moducer lad hipette to @ Otherst arougen coatron 3 Manifecture 10 x 20 at 12 G frontheses. 2x 4F pushers - more rigid \$ 1,000 paid. to RGH for the dogs) et 1,000 7/17 and 77/19. Parta exposed through plank retroperitarial approach 4 con vicinion of advertition and media Plane stolker nedia and wina 2 m of wall excued a portion of the anta briged in in the area where the outer layers had been removed.



De also experienced difficulty insisting
the introducer / prostham in the D line a
the graft was a little larger than that
used on Wednesday (7 cm VS 5 cm) and could not be packed completely into the short and of the introducer. I writching to the larger and enabled the whole groft, refrings and backs to be enclosed. Pueher button. John hooks. a robition to botto problems might be to abandan the pusher button and

muzzle loading introducer in favour of

a dilator and breech loading introducer 1 Q delator is easy to remark The introducer wheath need here are nort helpful when the citroducer sheath is large ret and the venels canall (dag)

1	Dis advant ages.
The state of the s	Delator tend to be rigid
	(2) The graff Count negotiate should
	Cures within the caleies of a
	tight introducer shoots.
% 	
\$	here considerations present little problem in the dog model, with soft venels
	in the dog model, with eaft venels
;	and a parar angle between their
	and a navour angle between that arteries. Derfeet that human work
· · · · · · · · · · · · · · · · · · ·	unil recentate a return to the more
p t:	flexible mizzle loading versia; perhaps unte a balloon as the dilator buttan
?—————————————————————————————————————	unte a ballion as the delatar buttan
· ·	a the pusher Q baloa could of
ļ	course, le deflated before renoval of
4.	a the pusher Q balcon could of Course, be deflated before removal of the pusher, which would aliminate the
To the second se	problem. Also had today is renoving
á a	the pusher button.
j	NB The mages are upside dam (the dags head was to the @). They
<u> </u>	are stored on the hard drive as
	# 6 and # 7., and a the tape
· · · · · · · · · · · · · · · · · · ·	# 110 L # 135
<u> </u>	
1	
	the state of the s

Ster, Mary

Large introducer / small a. Afterial size seems to be variable, even in doop of the same size.

Wald like to reduce introducer dia neter 45 mm Option orchide

(1) This graft - not available

(2) Analler Jusher

(3) Afring that packs smaller. The nain limiter a 3 is the foints of the expring - the radius of curvature has a range, defending upon the force offlied and the guage of sive very large porces are required to achieve the short parking that is using 12 or packs letter than 16 is.

Quantity alternative is to eliminate variability at this point by great cocating a urtedd of nethed of pusher attachment the current an often hooks engage _**b**__

1

the spring.

Chather disadvantage of the elosed

point is the nerrower after, at

the open rim of the graft R wide

after ensures a more even refaring

of the spring arms, a creating a

more rearly circular orifice. Closed faut Open point a way to note the closed front works better in to have a larger forthe of the spring outside the graft.

This reconstates a larger spring arm.

Perhaps 2'12 cm rather than 2cm.

The closed point spring seems to be now elastic. Can probably use larger

quage writ. a different method of purpor attachment will be needed. Loops an the graft wread of points on the septing Loop have the advantage that they can all as gay ofter throughout the whole ange of graft size, without any movement of the purpor attachment return (B) OPENING Corrail system. With loops. central